

Periodic Classification of Elements MCQ Question Answer

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Question: 1. Law of octaves was given by

- Option A. Meyer
- Option B. Mendeleev
- Option C. Moseley
- Option D. Newland

Question: 2. Which of the following did not find a place in Mendeleef's periodic table?

- Option A. Fr
- Option B. Na
- Option C. Ce
- Option D. Cl

Question: 3. In a Lother Meyer curve sodium occurs at

- Option A. bottom
- Option B. peak
- Option C. some point on the curve
- Option D. middle of the curve

Question: 4. In the Mendeleef's periodic table properties of the elements are the periodic function of their

- Option A. atomic weight
- Option B. atomic number
- Option C. atomic volume
- Option D. none of these

Question: 5. Modern Periodic Law was given by

- Option A. Joule
- Option B. Moseley
- Option C. Klechkosky
- Option D. Meyer

Question: 6. Which of the following is an inert gas?

- Option A. Oxygen
- Option B. Nitrogen
- Option C. Argon
- Option D. Hydrogen

Question: 7. The element with no definite place in the periodic table is

Option A. At

Option B. H

Option C. N

Option D. Pt

Question: 8. Lothar Meyer plotted a graph of

Option A. Atomic volume versus atomic number

Option B. Atomic radii versus atomic weight

Option C. Atomic weight versus mass number

Option D. Atomic volume versus atomic weight

Question: 9. Which of the following elements is not liquid at room temperature, i.e., 25°C?

Option A. Hg

Option B. Br

Option C. Cl

Option D. Cs

Question: 10. The general electronic configuration of s-block elements is

Option A. ns^{1-2}

Option B. ns^2p^6

Option C. ns^1

Option D. $ns^0 \text{ to } 2$

Question: 11. The lightest metal is

Option A. Li

Option B. Pb

Option C. Na

Option D. Al

Question: 12. Which of the following species have minimum size?

Option A. Br^-

Option B. S^{2-}

Option C. Ne

Option D. K^+

Question: 13. The differentiating electron enters in the penultimate energy level in the case of

Option A. s block ele.

Option B. p block ele.

Option C. d block ele.

Option D. f block ele.

Question: 14. The pair of elements that exhibit diagonal relationship is

- Option A. Li-Mg
- Option B. Al-Na
- Option C. Ne-Ar
- Option D. Si-P

Question: 15. Elements whose atoms have incompletely filled penultimate energy levels are known as

- Option A. s-block elements
- Option B. p-block elements
- Option C. d-block elements
- Option D. inert gases

Question: 16. The heaviest element is

- Option A. Cs
- Option B. Na
- Option C. Hg
- Option D. U

Question: 17. Which of the following have maximum size?

- Option A. Cl
- Option B. N₂
- Option C. F
- Option D. Ne

Question: 18. An atom of an element has electronic configuration $(\text{Ar}) 4s^2 3d^5$, the element belongs to block

- Option A. s
- Option B. p
- Option C. f
- Option D. d

Question: 19. Which of the following is not an s-block element?

- Option A. Ru
- Option B. Be
- Option C. Fr
- Option D. Rb

Question: 20. Elements whose atoms have incompletely filled penultimate and anti-penultimate energy levels are known as

- Option A. Inner Transition elements
- Option B. Representative elements
- Option C. Inert elements

Option D. Noble gases

Question: 21. Which of the following has the maximum size?

Option A. Al^-

Option B. Ne

Option C. Na^+

Option D. F^-

Question: 22. Elements belonging to the same period are

Option A. Si, N, O

Option B. Li, Be, Mg

Option C. Sc, Ti, V

Option D. Cu, Zn, Cd

Question: 23. 3. Atomic number of an element X is 34, it belongs to

Option A. IV period, VIA group

Option B. IV period, IIA group

Option C. V period, III B group

Option D. IV period, VII A group

Question: 24. An element A has atomic number 7. It will have properties similar to the element with atomic number

Option A. 85

Option B. 57

Option C. 26

Option D. 51

Question: 25. Which of the following has maximum ionisation energy ?

Option A. Li

Option B. Be

Option C. C

Option D. B

Question: 26. On moving across a period from left to right the ionisation energy increases because

Option A. value of principal quantum number increases

Option B. effective nuclear charge increases

Option C. atomic size increases

Option D. nuclear charge increases

Question: 27. Which of the following has highest ionisation energy?

Option A. Be

Option B. Cl

Option C. Ba

Option D. N

Question: 28. A metal may have atomic number

Option A. 85

Option B. 32

Option C. 38

Option D. 2

Question: 29. Which of the following has maximum ionisation energy?

Option A. Li

Option B. Ba

Option C. Cl

Option D. Be

Question: 30. Which of the following has minimum ionisation energy

Option A. Ca

Option B. In

Option C. Te

Option D. Rb

Answer Sheet

1	D	
2	A	
3	B	
4	A	
5	B	
6	C	
7	B	
8	D	
9	D	
10	A	
11	A	
12	D	
13	A	
14	A	
15	C	
16	D	
17	D	
18	D	
19	A	
20	A	
21	B	
22	C	
23	A	
24	D	
25	B	
26	A	
27	D	
28	C	
29	D	
30	D	